IN THE SPECIFICATION

In the Abstract, please amend the following.

A method and a device for on-chip magnetic resonance spectroscopy (FMR, SPR, EPR, ESR, NMR) is proposed. On-chip magnetic resonance spectroscopy may be applied to non-magnetic as well as magnetic materials which may be solids, liquids, or gases, and to solids, liquids and gases. The method of the present invention is suitable for miniaturized miniaturized materials analysis such as for example microfluidies such as, for example, micro-fluidies. The strength of In an example embodiment, the method lies in the relies on the combination of highly efficient spin excitation near on-chip current wires with very sensitive on-chip magnetic sensors. The method and device also allows one to separately detect different types of magnetic particles or molecules.

Fig. 3